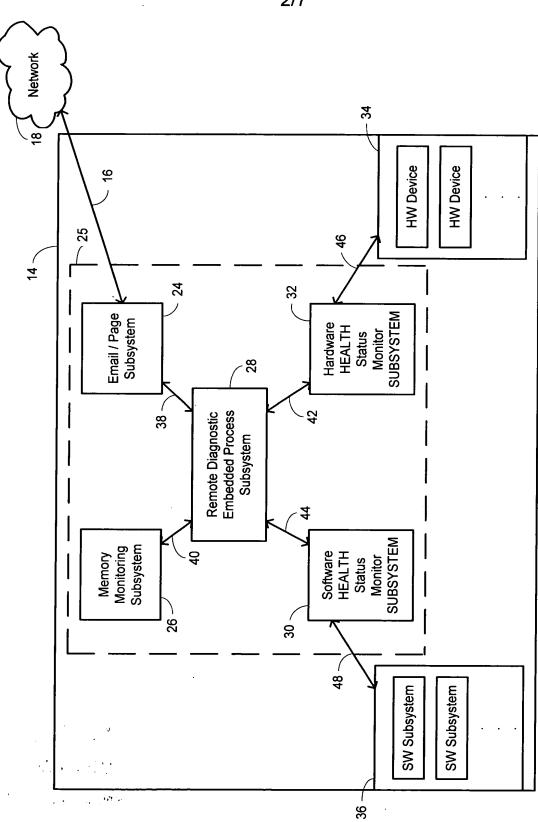


Application No.: 09/520,687

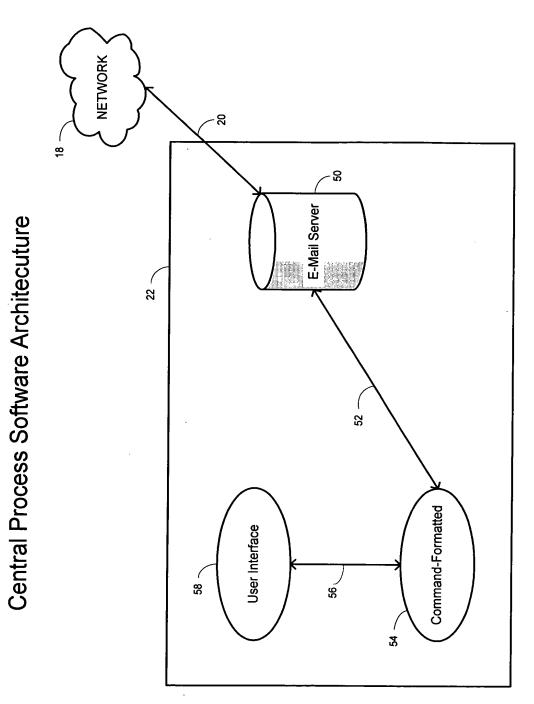
2/7



F/G 2

Diagnostic/Remote Monitoring by Email Inventor: John Dung-Quang Ly
Application No.: 09/520,687

3/7



F/G. 3



## Diagnostic/Remote Monitoring by Email Inventor: John Dung-Quang Ly Application No.: 09/520,687

1	,	7
4	/	1

61 t6 : 00000000 01000000   s8 : 00000000 0000000000000000000000000	67 rommon 9 >	68 hanif@life:NONE:symbols[84] rsym c5400-js-mz.symbols.Jan7 69 Reading c5400-js-mz.symbols.Jan7 70 c5400-js-mz.symbols.Jan7 read in 71 Enter hex value: 603F6080 603F068C 602B39E4 602B39D0 72 0x603F6080:cdp_cache_ager(0x603f602c)+0x54 73 0x603F068C:cdp_prot(0x603f03f4)+0x298 74 0x602B39E4:r4k_process_dispatch(0x602b39d0)0x14 75 0x602B39D0:r4k_process_dispatch(0x602b39d0)+0x0 77 Enter hex value: 78 Enter hex value: 79 Enter hex value:
Enclosure 4 of 10 Added 000107 by hanif		

FIG. 4a	FIG. 4b	

Key To

Initial SP = 0x616cbd48, Initial PC = 0x602dce94, RA = 0x602c92e4 PC= 0x602d91b8, PC= 0x602dce94, PC= 0x602b68c0, PC= 0x602b5aec, PC= 0x602db848, C= 0x602d8fd8, PC= 0x602c92e4 C= 0x602d87f8, Frame 0 : FP= 0x616cbd48, Frame 2 : FP= 0x616cbd60, Frame 3 : FP= 0x616cbd88, : FP= 0x616cbe50, : FP= 0x616cbe78, Frame 1 : FP= 0x616cbd48, : FP= 0x616cbf20, : FP= 0x616cbf40 Process Level Stack Trace: Kernel Level Stack Trace: rommon 7 > stack Frame 6 Frame 4 Frame 5 Frame 7

24 bytes 40 bytes 200 bytes 40 bytes 168 bytes 32 bytes 88 bytes

0 bytes

CSC. sys

Bug CSCdp64343

RA = 0x603f608c

Initial SP = 0x630fac40, Initial PC = 0x603f6080,

Frame 0 : FP= 0x630fac40,

5 5

Frame 1 : FP=0x630fac78, Frame 2 : FP=0x630facc0,

56 bytes 72 bytes 24 bytes 24 bytes

PC= 0x603f068c, PC= 0x602b39e4,

PC= 0x603f6080

PC= 0x602b39d0

: FP= 0x630facd8,

Frame 2 Frame 3



## Diagnostic/Remote Monitoring by Email Inventor: John Dung-Quang Ly Application No.: 09/520,687

5/7

994: emt_call x value: 0x60 x value: 0x60 x value: 0x60 to value: 0x60	80 0x602dce 81 Enter her 82 0x602dce 83 Enter her 84 0x602c92 85 Enter her 86 0x602d8f 87 Enter her 90 0x602d8f 91 Enter her 92 0x602d8f 93 Enter her 94 0x602b5 95 Enter her 96 0x602db5 97 Enter her 98 0x602db6 99 Enter her 98 0x602db6 91 Enter her 91 Enter her 92 0x602db6 93 Enter her 94 0x602db6 95 0x602db6 96 0x602db6 97 Enter her 98 0x602db6 98 0x602db6 99 Enter her 100 0x602db6 101 Enter her 102 0x602b3 103 Enter her	
(0x602dce90) +0x4 2dce94 (0x602dce90) +0x4 2c92e4 u_exception(0x602c92c0)+1 2d8fd8 n_to_monitor_direct(0x602 2d91b8 n_to_monitor(0x602d9010) 2d87f8 ception (0x602d84d0)+0x3 2b68c0 default (0x602b66a4) +0x21 2b5acc il_handler(0x602b59a8) + 0 2db848 dispatch_return(0x602db8/3f608c) 1 (0x603f602c) +0x54 3f608c, 1 (0x603f602c) +0x54 3f068c, 1 (0x603f93f4) +0x298 12b39e4 02b39e4 02b39e4	94 : emt_call (0x602dce90) +0x4  t value: 0x602dce94  94: emt_call (0x602dce90) +0x4  t value: 0x602c92e4  64 : mon_cpu_exception(0x602c92c0)+  t value: 0x602d8fd8  d8: r4k_return_to_monitor_direct(0x602  t value: 0x602d91b8  b8: r4k_return_to_monitor(0x602d9010)  t value: 0x602d87f8  f8:handle_exception (0x602d84d0)+0x31  t value: 0x602b68c0  cc: special_default (0x602b66a4) +0x21  t value: 0x602b68c0  t value: 0x602b68c0  ec: r4k_signal_handler(0x602b59a8) + 0  t value: 0x602b68c0  d90: cdp_cache_ager(0x603f602c) +0x54  t value: 0x603f608c,  t value: 0x602f08c,  t value: 0x602f08c,  sx value: 0x602b39e4  sx value: 0x602b39e4  sx value: 0x602b39e0	80 0x602dce94: emt_call (0x602dce90) +0x4 81 Enter hex value: 0x602dce94 82 0x602dce94: emt_call (0x602dce90) +0x4 83 Enter hex value: 0x602c92e4 84 0x602c92e4: mon_cpu_exception(0x602c92c0)+0x24 85 Enter hex value: 0x602d8fd8 86 0x602d8fd8: r4k_return_to_monitor_direct(0x602d8f60)+0x78 87 Enter hex value: 0x602d91b8 88 0x602d8fd8: r4k_return_to_monitor_direct(0x602d8f60)+0x78 89 Enter hex value: 0x602d87f8 90 0x602d87f8:handle_exception (0x602d84d0)+0x328 91 Enter hex value: 0x602b68c0 92 0x602d87f8:handle_exception (0x602b66a4) +0x21c 93 Enter hex value: 0x602b68c0 94 0x602b68c0: special_default (0x602b66a4) +0x21c 95 Enter hex value: 0x602b68c0 96 0x602b68c0: cap_cap_default (0x602b59a8) + 0x144 97 Enter hex value: 0x603f6080 98 0x602db848: r4k_sig_dispatch_return(0x602db848) +0x0 99 Enter hex value: 0x603f6080 90 0x603f608c, :cdp_cache_ager(0x603f602c) +0x54 99 Enter hex value: 0x603f086c, icdp_prot (0x603f03f4) +0x298 101 Enter hex value: 0x602b39e4 102 0x602b39e4 : r4k_process_dispatch (0x602b39d0) +0x14 103 Enter hex value: 0x602b39d0 104 0x602b39d0 : r4k_process_dispatch (0x602b39d0) +0x0
(0x602dce90 2dce94 (0x602dce90 2c92e4 u_exception( 2d8fd8 n_to_monito 2d91b8 n_to_monito 2d91b8 n_to_monito 2d91b8 n_to_monito 2d87f8 (ception (0x60) 2b5aec dispatch_rett 3f6080 ne_ager(0x60) 16-ager(0x60) 16-ager(0x60) 16-ager(0x60) 16-ager(0x60) 16-ager(0x60) 16-ager(0x60) 16-ager(0x60) 16-ager(0x60) 16-ager(0x60)	194 : emt_call (0x602dce90 to value: 0x602dce94   194: emt_call (0x602dce90   194: emt_call (0x602dce90   194: emt_call (0x602dce90   195: value: 0x602d8fd8   195: ralue: 0x602d8fd8   195: ralue: 0x602d91b8   195: ralue: 0x602d91b8   195: ralue: 0x602d91b8   195: ralue: 0x602d87f8   195: value: 0x602b8c0   195: cap_cache_ager(0x60)   195: cap_cache_ager(0x60)   195: cap_prot (0x603f03f4   196: cap_prot (0x603f03f4   196: cap_prot (0x603f03f4   196: cap_prot (0x602b3gd0   1960 : rafk_process_dispat    1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat    1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat   1960 : rafk_process_dispat    1960 : rafk_process_dispat    1960 : rafk_process_dispat    1960 : rafk_process_dispat    1960 : rafk_process_dispat	00 0x602dce94 : emt_call (0x602dce96) 11 Enter hex value: 0x602dce94 12 0x602dce94 : emt_call (0x602dce90) 13 Enter hex value: 0x602c92e4 14 0x602c92e4 : mon_cpu_exception() 15 Enter hex value: 0x602d8fd8 16 0x602d8fd8: r4k_return_to_monito 17 Enter hex value: 0x602d91b8 18 0x602d91b8: r4k_return_to_monito 17 Enter hex value: 0x602d91b8 18 0x602d91b8: r4k_return_to_monito 18 Enter hex value: 0x602d87f8 19 Enter hex value: 0x602b68c0 10 0x602d87f8:handle_exception (0x60) 11 Enter hex value: 0x602b68c0 12 0x602b68c0: special_default (0x60) 13 Enter hex value: 0x602b68c0 14 0x602b68c0: cdp_cache_ager(0x60) 15 Enter hex value: 0x603f068c, 16 0x603f068c, :cdp_prot (0x603f08f) 16 Enter hex value: 0x602b39e4 17 0x602b39e4 : r4k_process_dispat 18 0x602b39e4 : r4k_process_dispat 10 0x602b39e0 : r4k_process_dispat 10 0x602b39e0 : r4k_process_dispat 10 0x602b39e0 : r4k_process_dispat
	194 : emt_cal 194 : emt_call 194 : emt_call 195 : value: 0x60 196 : ralue: 0x60 197 : value: 0x60 198 : rak_retur 198 : rak_retur 198 : rak_retur 199 : rak_retur 190 : rak_retur 190 : rak_retur 190	10 0x602dce94: emt_cal 11 Enter hex value: 0x60 12 0x602dce94: emt_call 13 Enter hex value: 0x60 14 0x602c92e4: mon_cp 15 Enter hex value: 0x60 16 0x602d8fd8: r4k_retur 17 Enter hex value: 0x60 18 0x602d91b8: r4k_retur 18 Enter hex value: 0x60 19 0x602d87f8:handle_e> 10 0x602d87f8:handle_e> 10 0x602d87f8:handle_e> 11 Enter hex value: 0x60 12 0x602b848: r4k_sign 13 Enter hex value: 0x60 14 0x602b848: r4k_sign 15 Enter hex value: 0x60 16 0x603f068c, :cdp_pro 17 Enter hex value: 0x60 18 0x603f068c, :cdp_pro 10 0x602b9e4: r4k_pro 10 0x602b9e4: r4k_pro

00000010 18dd470

61250000

618f0000 318e8e20 0000000 0000000 5173ecc0 616cbd48 0000000

00000010

000002b 0000000

00000000

518dd470 30000038

P0660000 518dd470

00000000 00000000 00000000

00000000

3400001

0001082

0000000

00000000 00000000 00000000

00001000 0000001c

0000000

: 00000000 : 00000000 : 34000002

Interrupt Control Register

**iff**c0ff

0000000 0000000

Kernel Level Context: Reg MSW

rommon 8 > context

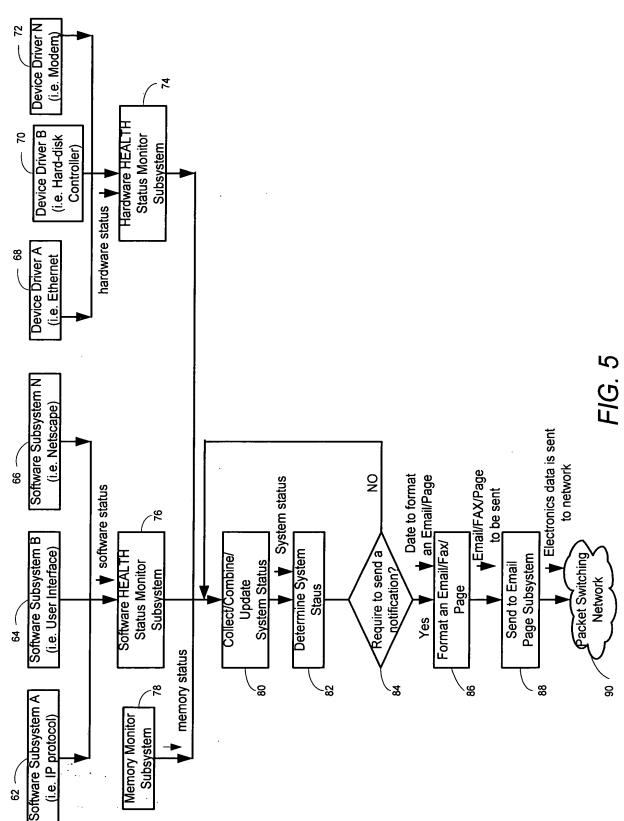
=1G. 4		_	2
$\frac{2}{3}$	*	1	-
$\overline{}$	(	1	)
4	Ĺ	Ĺ	

4	Process	Process Level Context:	••				
45 46	Reg	MSW	LSW	Reg	MSW	rsw	
47	zero	00000000:	00000000	SO SO	: 00000000	09 P0P0P0P0	
8	ΑT	00000000:	618e0000	s1	00000000 :	D0D0D0D0	
49	?	00000000:	00000000	<b>8</b> 5	00000000 :	64bd06ec	
20	7	00000000:	0be6d67d	83	00000000 :	618e8b78	
2	a0	00000000:	00000000	\$	00000000 :	618e8b78	
25	<b>a</b> 1	00000000:	01263690	SS	00000000 :	61250000	
23	a2	00000000:	00000000	9S	00000000 :	618f0000	
ß	a3	00000000:	00000000	s7	00000000 :	618e8e20	
22	\$	00000000:	00000000	82	00000000 :	602d9ff4	
26	Ŧ	00000000:	0000000	Ð	00000000 :	0000000	
27	2	00000000:	0000001	8	00000000 :	30400c01	
28	ಚ	: fffffff	ffff00ff	⋝	00000000 :	01000000	
29	4	00000000:	00001f00	<b>d</b>	00000000 :	6173ecc0	
9	<b>t</b> 5	00000000:	0000f36d	gs	00000000	630fac40	



Diagnostic/Remote Monitoring by Email Inventor: John Dung-Quang Ly
Application No.: 09/520,687

6/7





Diagnostic/Remote Monitoring by Email Inventor: John Dung-Quang Ly

Application No.: 09/520,687

